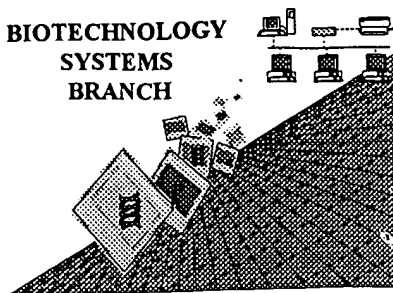


S. 23-147

#5 SK
7/13/00

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/489,667

Source: 1653

Date Processed by STIC: 6/21/2000

RECEIVED

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

J. Srivasta

1653

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/489,667

DATE: 06/21/2000
TIME: 12:50:31

Does Not Comply
Corrected Diskette Needed

Input Set : A:\D28751.app
Output Set: N:\CRF3\06212000\I489667.raw

3 <110> APPLICANT: Donovan, Stephen
5 <120> TITLE OF INVENTION: CLOSTRIDIAL TOXIN DERIVATIVES AND METHODS FOR TREATING
6 PAIN
8 <130> FILE REFERENCE: botulinum-subP/pain/D2875
10 <140> CURRENT APPLICATION NUMBER: 09/489,667
11 <141> CURRENT FILING DATE: 2000-01-19
13 <160> NUMBER OF SEQ ID NOS: 14
15 <170> SOFTWARE: PatentIn Ver. 2.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 11
19 <212> TYPE: PRT
20 <213> ORGANISM: Unknown Organism
22 <220> FEATURE:
23 <221> NAME/KEY: MOD_RES
24 <222> LOCATION: (11)
25 <223> OTHER INFORMATION: AMIDATION
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is
29 substance P and is very well known in the art.
31 <220> FEATURE:
32 <223> OTHER INFORMATION: The Met at position 11 is Met-amide.
34 <300> PUBLICATION INFORMATION:
W--> 35 <310> PATENT DOCUMENT NUMBER: 5891842
36 <311> PATENT FILING DATE: 1996-04-12
37 <312> PUBLICATION DATE: 1999-04-06
39 <400> SEQUENCE: 1
40 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met
41 1 5 10
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 12
46 <212> TYPE: PRT
47 <213> ORGANISM: Unknown Organism
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Description of Unknown Organism: Precursor to
51 substance P, which is very well known in the art.
53 <300> PUBLICATION INFORMATION:
W--> 54 <310> PATENT DOCUMENT NUMBER: 5891842
55 <311> PATENT FILING DATE: 1996-04-12
56 <312> PUBLICATION DATE: 1999-04-06
58 <300> PUBLICATION INFORMATION:
59 <301> AUTHORS: Shimonka,
60 et al.,
61 <303> JOURNAL: J. Neurochem.
62 <304> VOLUME: 59
63 <306> PAGES: 81-92
W--> 64 <307> DATE: 1992
66 <400> SEQUENCE: 2

pp 1-5
RECEIVED

JUL 12 2000

TECH CENTER 1600/2900

see 1.823 of new Sequence Rules. Do not
use patent number. Use
serial number, e.g.
US 07/999,999

see 1.823 for format

RAW SEQUENCE LISTING

DATE: 06/21/2000

PATENT APPLICATION: US/09/489,667

TIME: 12:50:31

Input Set : A:\D28751.app

Output Set: N:\CRF3\06212000\I489667.raw

```

67 Arg Pro Lys Pro Gln Phe Phe Gly Leu Met Gly
68   1           5           10
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 13
73 <212> TYPE: PRT
74 <213> ORGANISM: Unknown Organism
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is
78   a precursor to substance P and is very well known
79   in the art.
81 <300> PUBLICATION INFORMATION:
W--> 82 <310> PATENT DOCUMENT NUMBER: 5891842
83 <311> PATENT FILING DATE: 1996-04-12
84 <312> PUBLICATION DATE: 1999-04-06
86 <300> PUBLICATION INFORMATION:
87 <301> AUTHORS: Shimonka,
88   et al.,
89 <303> JOURNAL: J. Neurochem.
90 <304> VOLUME: 59
91 <306> PAGES: 81-92
W--> 92 <307> DATE: 1992
94 <400> SEQUENCE: 3
95 Arg Pro Lys Pro Gln Phe Phe Gly Leu Met Gly Lys
96   1           5           10
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 14
101 <212> TYPE: PRT
102 <213> ORGANISM: Unknown Organism
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is a
106   precursor to substance P and is very well known in
107   the art.
109 <300> PUBLICATION INFORMATION:
W--> 110 <310> PATENT DOCUMENT NUMBER: 5891842
111 <311> PATENT FILING DATE: 1996-04-12
112 <312> PUBLICATION DATE: 1999-04-06
114 <300> PUBLICATION INFORMATION:
115 <301> AUTHORS: Shimonka,
116   et al.,
117 <303> JOURNAL: J. Neurochem.
118 <304> VOLUME: 59
119 <306> PAGES: 81-92
W--> 120 <307> DATE: 1992
122 <400> SEQUENCE: 4
123 Arg Pro Lys Pro Gln Phe Phe Gly Leu Met Gly Lys Arg
124   1           5           10
127 <210> SEQ ID NO: 5
128 <211> LENGTH: 12
129 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

DATE: 06/21/2000

PATENT APPLICATION: US/09/489,667

TIME: 12:50:31

Input Set : A:\D28751.app

Output Set: N:\CRF3\06212000\I489667.raw

130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: This fragment
134 is a carboxy-ester synthetic precursor to
135 substance P.
137 <220> FEATURE:
138 <223> OTHER INFORMATION: The Gly at the carboxy terminal (Gly at position
139 12) is methylated.
141 <300> PUBLICATION INFORMATION:
W--> 142 <310> PATENT DOCUMENT NUMBER: 5891842
143 <311> PATENT FILING DATE: 1996-04-12
144 <312> PUBLICATION DATE: 1999-04-06
146 <300> PUBLICATION INFORMATION:
147 <301> AUTHORS: Lee,
148 et al.,
149 <303> JOURNAL: Eur. J. Biochem.
150 <304> VOLUME: 114
151 <306> PAGES: 315-327
W--> 152 <307> DATE: 1981
154 <300> PUBLICATION INFORMATION:
155 <301> AUTHORS: Pernow, B.
156 <303> JOURNAL: Pharmacol. Rev.
157 <304> VOLUME: 35
158 <306> PAGES: 86-138
W--> 159 <307> DATE: 1983
161 <300> PUBLICATION INFORMATION:
162 <301> AUTHORS: Regoli,
163 et al.,
164 <303> JOURNAL: TIPS
165 <304> VOLUME: 9
166 <306> PAGES: 290-295
W--> 167 <307> DATE: 1988
169 <400> SEQUENCE: 5
170 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly
171 1 5 10
174 <210> SEQ ID NO: 6
175 <211> LENGTH: 13
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
181 carboxy ester synthetic precursor to substance P.
183 <220> FEATURE:
184 <223> OTHER INFORMATION: The Lys at the carboxy-terminus (Lys at position
185 13) is methylated.
187 <300> PUBLICATION INFORMATION:
W--> 188 <310> PATENT DOCUMENT NUMBER: 5891842
189 <311> PATENT FILING DATE: 1996-04-12
190 <312> PUBLICATION DATE: 1999-04-06

RECEIVED
JUL 12 2000
TECH CENTER 1600/2900

DATE: 06/21/2000

TIME: 12:50:31

Output Set: N:\CRF3\06212000\I489667.raw

```

192 <300> PUBLICATION INFORMATION:
193 <301> AUTHORS: Lee,
194     et al.,
195 <303> JOURNAL: Eur. J. Biochem.
196 <304> VOLUME: 114
197 <306> PAGES: 315-327
W--> 198 <307> DATE: 1981
200 <300> PUBLICATION INFORMATION:
201 <301> AUTHORS: Pernow, B.
202 <303> JOURNAL: Pharmacol. Rev.
203 <304> VOLUME: 35
204 <306> PAGES: 86-138
W--> 205 <307> DATE: 1983
207 <300> PUBLICATION INFORMATION:
208 <301> AUTHORS: Regoli,
209     et al.,
210 <303> JOURNAL: TIPS
211 <304> VOLUME: 9
212 <306> PAGES: 290-295
W--> 213 <307> DATE: 1988
215 <400> SEQUENCE: 6
216 Arg Pro Lys Pro Gln Phe Phe Gly Leu Met Gly Lys
217   1             5             10
220 <210> SEQ ID NO: 7
221 <211> LENGTH: 14
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
227     carboxy ester sythetic precursor to substance P.
229 <220> FEATURE:
230 <223> OTHER INFORMATION: The Arg at the carboxy-terminus (Arg at position
231     14) is methylated.
233 <300> PUBLICATION INFORMATION:
W--> 234 <310> PATENT DOCUMENT NUMBER: 5891842
235 <311> PATENT FILING DATE: 1996-04-12
236 <312> PUBLICATION DATE: 1999-04-06
238 <300> PUBLICATION INFORMATION:
239 <301> AUTHORS: Lee,
240     et al.,
241 <303> JOURNAL: Eur. J. Biochem.
242 <304> VOLUME: 114
243 <306> PAGES: 315-327
W--> 244 <307> DATE: 1981
246 <300> PUBLICATION INFORMATION:
247 <301> AUTHORS: Pernow, B.
248 <303> JOURNAL: Pharmacol. Rev.
249 <304> VOLUME: 35
250 <306> PAGES: 86-138

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/489,667

DATE: 06/21/2000
 TIME: 12:50:31

Input Set : A:\D28751.app
 Output Set: N:\CRF3\06212000\I489667.raw

W--> 251 <307> DATE: 1983
 253 <300> PUBLICATION INFORMATION:
 254 <301> AUTHORS: Regoli,
 255 et al.,
 256 <303> JOURNAL: TIPS
 257 <304> VOLUME: 9
 258 <306> PAGES: 290-295
 W--> 259 <307> DATE: 1988
 261 <400> SEQUENCE: 7
 262 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg
 263 1 5 10
 266 <210> SEQ ID NO: 8
 267 <211> LENGTH: 12
 268 <212> TYPE: PRT
 269 <213> ORGANISM: Artificial Sequence
 271 <220> FEATURE:
 272 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
 273 carboxy ester synthetic precursor to substance P.
 275 <220> FEATURE:
 276 <223> OTHER INFORMATION: The Gly at the carboxy terminal (Gly at position
 277 12) is ethylated.
 279 <300> PUBLICATION INFORMATION:
 W--> 280 <310> PATENT DOCUMENT NUMBER: 5891842
 281 <311> PATENT FILING DATE: 1996-04-12
 282 <312> PUBLICATION DATE: 1999-04-06
 284 <300> PUBLICATION INFORMATION:
 285 <301> AUTHORS: Lee,
 286 et al.,
 287 <303> JOURNAL: Eur. J. Biochem.
 288 <304> VOLUME: 114
 289 <306> PAGES: 315-327
 W--> 290 <307> DATE: 1981
 292 <300> PUBLICATION INFORMATION:
 293 <301> AUTHORS: Pernow, B.
 294 <303> JOURNAL: Pharmacol. Rev.
 295 <304> VOLUME: 35
 296 <306> PAGES: 86-138
 W--> 297 <307> DATE: 1983
 299 <300> PUBLICATION INFORMATION:
 300 <301> AUTHORS: Regoli,
 301 et al.,
 302 <303> JOURNAL: TIPS
 303 <304> VOLUME: 9
 304 <306> PAGES: 290-295
 W--> 305 <307> DATE: 1988
 307 <400> SEQUENCE: 8
 308 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly
 309 1 5 10
 312 <210> SEQ ID NO: 9

*Please ensure
 subsequent sequences
 follow proper format.*

